

FILE 'HOME' ENTERED AT 09:36:32 ON 04 FEB 2009

FILE 'REGISTRY' ENTERED AT 09:36:41 ON 04 FEB 2009
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STRUCTURE FILE UPDATES: 2 FEB 2009 HIGHEST RN 1099859-47-8
DICTIONARY FILE UPDATES: 2 FEB 2009 HIGHEST RN 1099859-47-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

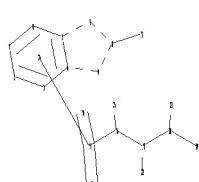
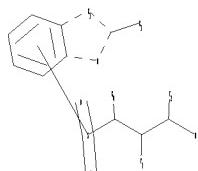
TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stn/gen/stndoc/properties.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10574157.str



chain nodes :

```

11 13 14 15 16 17 18 19 21 22 25
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
8-11 13-14 13-15 13-16 16-17 16-25 17-18 17-22 18-19 18-21
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
5-7 6-9 7-8 8-9 8-11 13-14 13-15 13-16 16-17 16-25 17-18 17-22 18-19
18-21
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

```

G1:O,S

G2:Cb,Hy,Ak,Ph

G3:OH,SH,NH2,H

G4:C,H,N

Match level :

```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:Atom
13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 21:CLASS
22:CLASS 25:CLASS
26:Atom

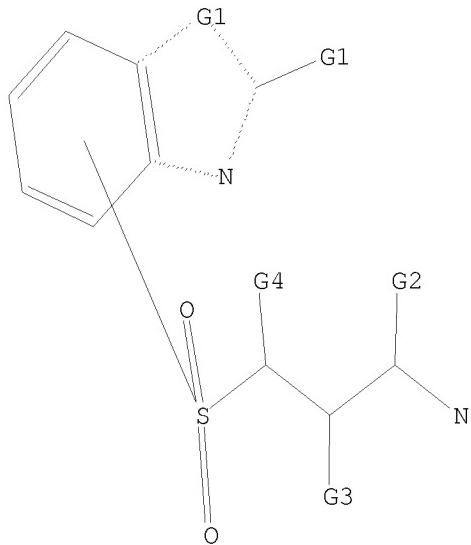
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L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 O,S

G2 Cb,Hy,Ak,Ph

G3 OH,SH,NH2,H

G4 C,H,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 09:37:09 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 102 TO ITERATE

100.0% PROCESSED 102 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1435 TO 2645
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

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FULL SCREEN SEARCH COMPLETED - 2261 TO ITERATE

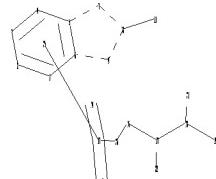
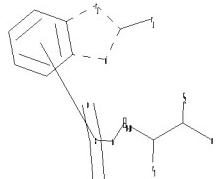
100.0% PROCESSED 2261 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L3 0 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\10574157A.str



chain nodes :

11 13 14 15 16 17 18 19 21 22 26

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

8-11 13-14 13-15 13-26 16-26 16-17 17-18 17-22 18-19 18-21

```
ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9  
exact/norm bonds :  
5-7 6-9 7-8 8-9 8-11 13-14 13-15 13-26 16-26 16-17 17-18 17-22 18-19  
18-21  
normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6
```

G1:O,S

G2:Cb,Hy,Ak,Ph

G3:OH,SH,NH2,H

G4:C,H,N

Match level :

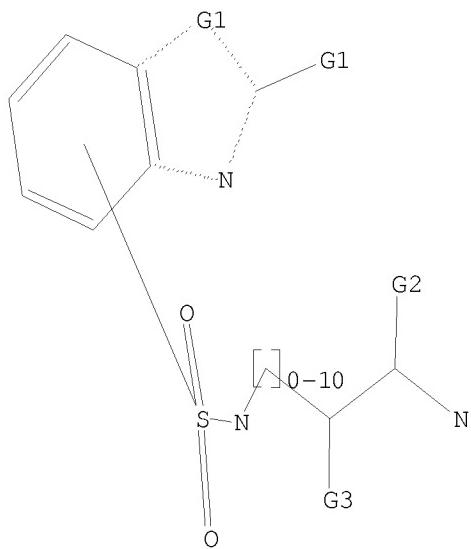
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1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:Atom  
13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 21:CLASS  
22:CLASS 25:Atom  
26:CLASS
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L4 STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4 STR



G1 O,S

G2 Cb,Hy,Ak,Ph

G3 OH,SH,NH2,H

G4 C,H,N

Structure attributes must be viewed using STN Express query preparation.

=> s 14 sss sam

SAMPLE SEARCH INITIATED 09:40:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 67 TO ITERATE

100.0% PROCESSED 67 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 849 TO 1831
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L4

=> s 14 sss full
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FULL SCREEN SEARCH COMPLETED - 1448 TO ITERATE

100.0% PROCESSED 1448 ITERATIONS
SEARCH TIME: 00.00.01

20 ANSWERS

L6 20 SEA SSS FUL L4

=> file capl
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
374.16 374.38

FILE 'CAPLUS' ENTERED AT 09:40:59 ON 04 FEB 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 4 Feb 2009 VOL 150 ISS 6
FILE LAST UPDATED: 3 Feb 2009 (20090203/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 16

L7

6 L6

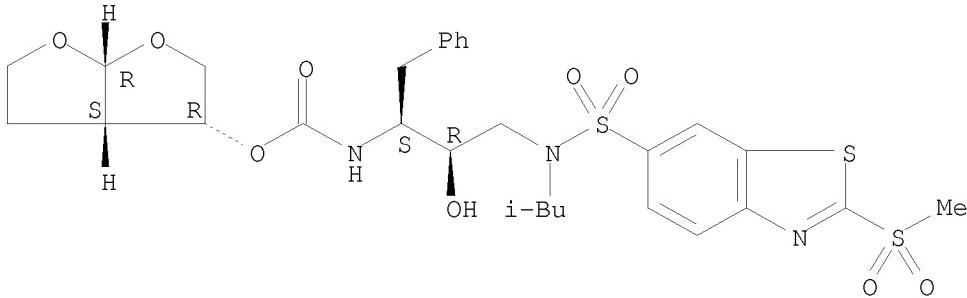
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L7 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:1469854 CAPLUS <<LOGINID::20090204>>
DOCUMENT NUMBER: 148:100596
TITLE: Preparation of aminobenzothiazolylsulfonamide derivatives as HIV protease inhibitors
INVENTOR(S): De Kock, Herman; Jonckers, Tim Hugo Maria; Boonants, Paul Jozef Gabriel Maria; Last, Stefaan Julien; Dierynck, Inge; Baumeister, Judith Eva; Van 'T Klooster, Gerben Albert Eleutherius
PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
SOURCE: PCT Int. Appl., 38pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007147884	A1	20071227	WO 2007-EP56235	20070622
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU 2007262943	A1	20071227	AU 2007-262943	20070622
PRIORITY APPLN. INFO.:			EP 2006-116003	A 20060623
			WO 2007-EP56235	W 20070622

OTHER SOURCE(S): MARPAT 148:100596
IT 1000287-01-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of aminobenzothiazolylsulfonamide derivs. as HIV protease inhibitors)
RN 1000287-01-3 CAPLUS
CN Carbamic acid, N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[(2-methylsulfonyl)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl-, (3R,3aS,6aR)-hexahydrofuro[2,3-b]furan-3-yl ester (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:527407 CAPLUS <>LOGINID::20090204>>
 DOCUMENT NUMBER: 143:59982
 TITLE: Preparation of HIV protease inhibitors, in particular imidazolidine derivatives
 INVENTOR(S): Flentge, Charles A.; Chen, Hui-Ju; Degoey, David A.; Flosi, William J.; Grampovnik, David J.; Huang, Peggy P.; Kempf, Dale J.; Klein, Larry L.; Krueger, Allan C.; Madigan, Darold L.; Randolph, John T.; Sun, Minghua; Yeung, Ming C.; Zhao, Chen
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 287 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050131042	A1	20050616	US 2003-733915	20031211
CA 2549389	A1	20050707	CA 2004-2549389	20041110
WO 2005061450	A2	20050707	WO 2004-US37745	20041110
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1709037	A2	20061011	EP 2004-810802	20041110
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS			
JP 2007513944	T	20070531	JP 2006-543826	20041110
MX 2006006610	A	20060831	MX 2006-6610	20060609
PRIORITY APPLN. INFO.:			US 2003-733915	A 20031211
			WO 2004-US37745	W 20041110

OTHER SOURCE(S): MARPAT 143:59982

IT 854744-56-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

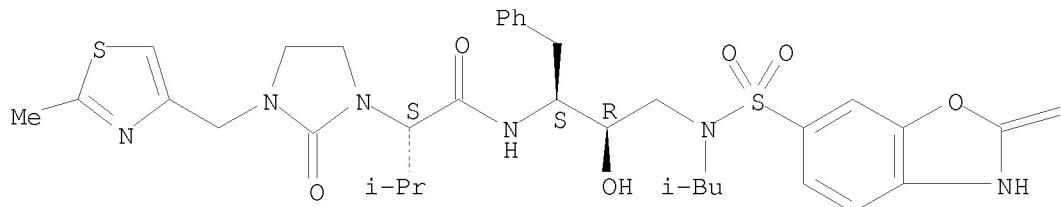
(antiviral agent; preparation of HIV protease inhibitors, in particular
imidazolidine derivs.)

RN 854744-56-2 CAPLUS

CN 1-Imidazolidineacetamide, N-[(1S,2R)-3-[(2,3-dihydro-2-oxo-6-
benzoxazolyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-
(phenylmethyl)propyl]-α-(1-methylethyl)-3-[(2-methyl-4-
thiazolyl)methyl]-2-oxo-, (αS)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

$\equiv O$

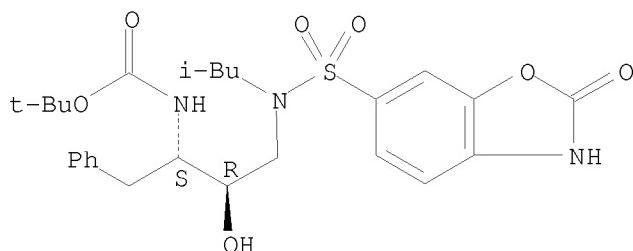
IT 854746-44-4P, tert-Butyl [(1S,2R)-1-benzyl-2-hydroxy-3-
[isobutyl[(2-oxo-2,3-dihydro-1,3-benzoxazol-6-
yl)sulfonyl]amino]propyl]carbamate

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(intermediate; preparation of HIV protease inhibitors, in particular
imidazolidine derivs.)

RN 854746-44-4 CAPLUS

CN Carbamic acid, [(1S,2R)-3-[(2,3-dihydro-2-oxo-6-benzoxazolyl)sulfonyl](2-
methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-, 1,1-dimethylethyl
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:300421 CAPLUS <<LOGINID::20090204>>
 DOCUMENT NUMBER: 142:373819
 TITLE: Methods for the preparation of aminohydroxypropyl benzoxazolesulfonamides as intermediates in the preparation of HIV protease inhibitors
 INVENTOR(S): De Kock, Herman Augustinus; Filliers, Walter Ferdinand Maria; Aelterman, Wim Albert Alex
 PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
 SOURCE: PCT Int. Appl., 65 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005030739	A1	20050407	WO 2004-EP52382	20040930
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004276017	A1	20050407	AU 2004-276017	20040930
CA 2537877	A1	20050407	CA 2004-2537877	20040930
EP 1670773	A1	20060621	EP 2004-766869	20040930
EP 1670773	B1	20070207		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
BR 2004014916	A	20061107	BR 2004-14916	20040930
CN 1860107	A	20061108	CN 2004-80028097	20040930
AT 353323	T	20070215	AT 2004-766869	20040930
JP 2007507468	T	20070329	JP 2006-530265	20040930
ES 2281828	T3	20071001	ES 2004-766869	20040930
NZ 546279	A	20080926	NZ 2004-546279	20040930
IN 2006DN00930	A	20070810	IN 2006-DN930	20060222
KR 2006092224	A	20060822	KR 2006-705992	20060327
US 20070123574	A1	20070531	US 2006-574157	20060328
MX 2006003575	A	20060605	MX 2006-3575	20060330
NO 2006001951	A	20060502	NO 2006-1951	20060502
PRIORITY APPLN. INFO.:			EP 2003-103630	A 20030930
			US 2003-507996P	P 20031002
			WO 2004-EP52382	W 20040930

OTHER SOURCE(S): CASREACT 142:373819; MARPAT 142:373819

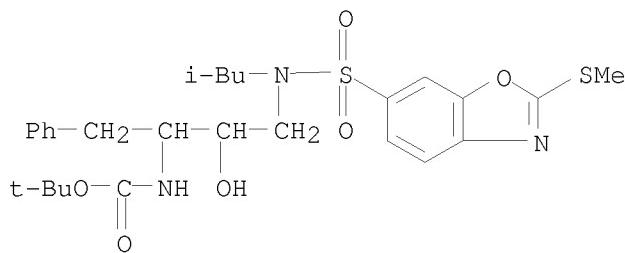
IT 849611-71-8P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (key intermediate; methods for the preparation of aminohydroxypropyl benzoxazolesulfonamides as intermediates in the preparation of HIV protease inhibitors)

RN 849611-71-8 CAPLUS

CN Carbamic acid, [2-hydroxy-3-[(2-methylpropyl)[[2-(methylthio)-6-benzoxazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]-, 1,1-dimethylethyl

ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:67041 CAPLUS <>LOGINID::20090204>>

DOCUMENT NUMBER: 142:309248

TITLE: Design of HIV-1 Protease Inhibitors Active on Multidrug-Resistant Virus

AUTHOR(S): Surleraux, Dominique L. N. G.; De Kock, Herman A.; Verschueren, Wim G.; Pille, Geert M. E.; Maes, Louis J. R.; Peeters, Anik; Vendeville, Sandrine; De Meyer, Sandra; Azijn, Hilde; Pauwels, Rudi; De Bethune, Marie-Pierre; King, Nancy M.; Prabu-Jeyabalan, Moses; Schiffer, Celia A.; Wigerinck, Piet B. T. P.

CORPORATE SOURCE: Tibotec BVBA, Mechelen, B-2800, Belg.

SOURCE: Journal of Medicinal Chemistry (2005), 48(6), 1965-1973

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:309248

IT 470704-93-9 848253-11-2

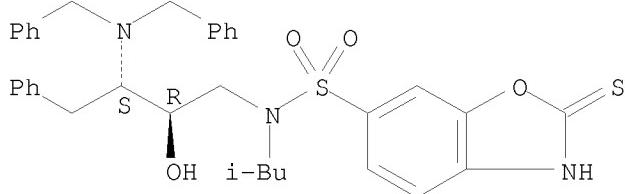
RL: RCT (Reactant); RACT (Reactant or reagent)

(design of HIV-1 protease inhibitors active on multidrug-resistant virus)

RN 470704-93-9 CAPLUS

CN 6-Benzoxazolesulfonamide, N-[(2R,3S)-3-[bis(phenylmethyl)amino]-2-hydroxy-4-phenylbutyl]-2,3-dihydro-N-(2-methylpropyl)-2-thioxo- (CA INDEX NAME)

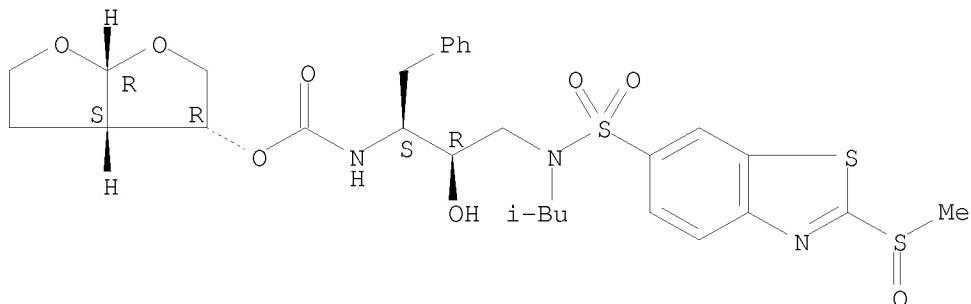
Absolute stereochemistry.



RN 848253-11-2 CAPLUS

CN Carbamic acid, [(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[2-(methylsulfinyl)-6-benzothiazolyl]amino]-1-(phenylmethyl)propyl]-, (3R,3aS,6aR)-hexahydrofuro[2,3-b]furan-3-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:814117 CAPLUS <>LOGINID::20090204>>
DOCUMENT NUMBER: 137:325410
TITLE: Broad-spectrum
2-(substituted-amino)-benzothiazolesulfonamide HIV
protease inhibitors
INVENTOR(S): Surleraux, Dominique Louis Nestor Ghislain; Wigerinck,
Piet Tom Bert Paul; Getman, Daniel; Verschueren, Wim
Gaston; Vendeville, Sandrine; De Bethune,
Marie-Pierre; De Kerpel, Jan Octaaf Antoon; Moors,
Samuel Leo Christiaan; De Kock, Herman Augustinus;
Voets, Marieke Christiane Johanna
PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
SOURCE: PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002083657	A2	20021024	WO 2002-EP1788	20020214
WO 2002083657	A3	20030213		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2438304	A1	20021024	CA 2002-2438304	20020214
AU 2002302363	A1	20021028	AU 2002-302363	20020214
AU 2002302363	B2	20080501		
EE 200300381	A	20031215	EE 2003-381	20020214
EP 1370543	A2	20031217	EP 2002-729930	20020214
EP 1370543	B1	20061025		
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HU 2003003257	A2	20040128	HU 2003-3257	20020214
BR 2002007862	A	20040622	BR 2002-7862	20020214
JP 2004518767	T	20040624	JP 2002-581413	20020214
CN 1525962	A	20040901	CN 2002-804982	20020214
CN 100369904	C	20080220		
NZ 527391	A	20050429	NZ 2002-527391	20020214
AP 1504	A	20060228	AP 2003-2856	20020214
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US 20040116485	A1	20040617	US 2003-467609	20030807
KR 870184	B1	20081124	KR 2003-710506	20030808
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HK 1061233	A1	20070427	HK 2004-104020	20040603
PRIORITY APPLN. INFO.:			EP 2001-200529	A 20010214
			US 2001-287758P	P 20010502
			CN 2002-804982	A3 20020214
			WO 2002-EP1788	W 20020214

OTHER SOURCE(S): MARPAT 137:325410

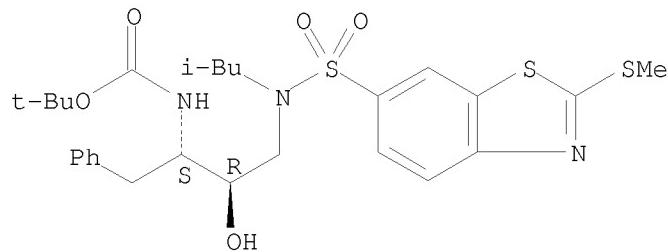
IT 473739-21-8P 473739-22-9P 473739-23-0P
 473739-27-4P 473739-28-5P 473739-29-6P
 473739-30-9P 473739-31-0P 473739-32-1P
 473739-33-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (broad-spectrum 2-aminobenzothiazolesulfonamide HIV protease inhibitors)

RN 473739-21-8 CAPLUS

CN Carbamic acid, [(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[[2-(methylthio)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

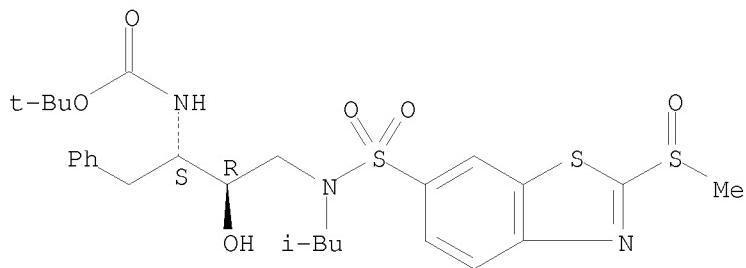
Absolute stereochemistry.



RN 473739-22-9 CAPLUS

CN Carbamic acid, [(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[[2-(methylsulfinyl)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

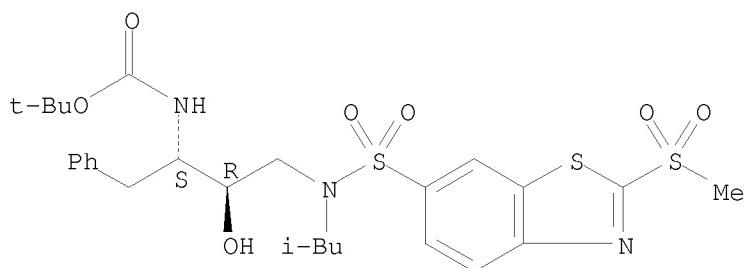
Absolute stereochemistry.



RN 473739-23-0 CAPLUS

CN Carbamic acid, [(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[2-(methylsulfonyl)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

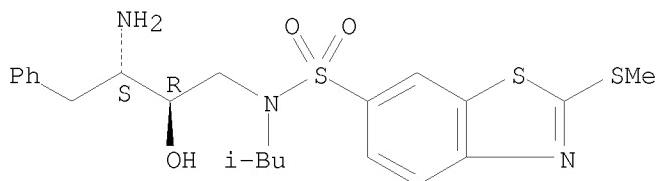
Absolute stereochemistry.



RN 473739-27-4 CAPLUS

CN 6-Benzothiazolesulfonamide, N-[(2R,3S)-3-amino-2-hydroxy-4-phenylbutyl]-N-(2-methylpropyl)-2-(methylthio)- (CA INDEX NAME)

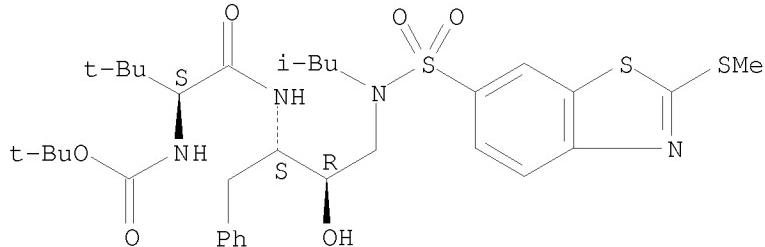
Absolute stereochemistry.



RN 473739-28-5 CAPLUS

CN Carbamic acid, [(1S)-1-[[[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[2-(methylthio)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]amino]carbonyl]-2,2-dimethylpropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

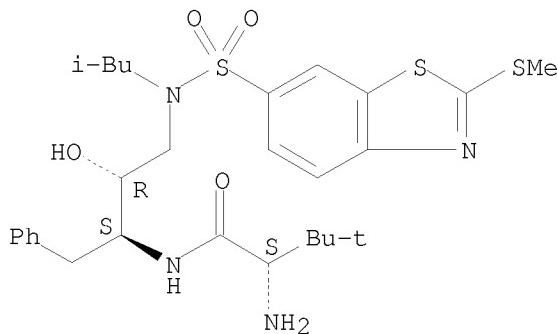
Absolute stereochemistry.



RN 473739-29-6 CAPLUS

CN Butanamide, 2-amino-N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[[2-(methylthio)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-, (2S)- (CA INDEX NAME)

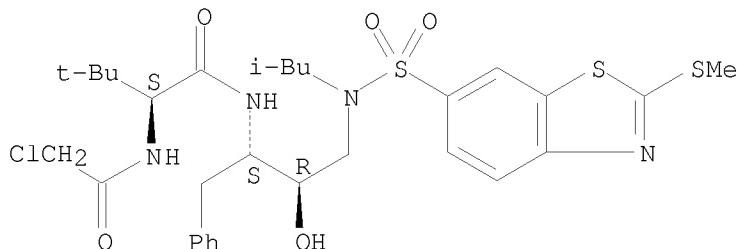
Absolute stereochemistry.



RN 473739-30-9 CAPLUS

CN Butanamide, 2-[(2-chloroacetyl)amino]-N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[[2-(methylthio)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-, (2S)- (CA INDEX NAME)

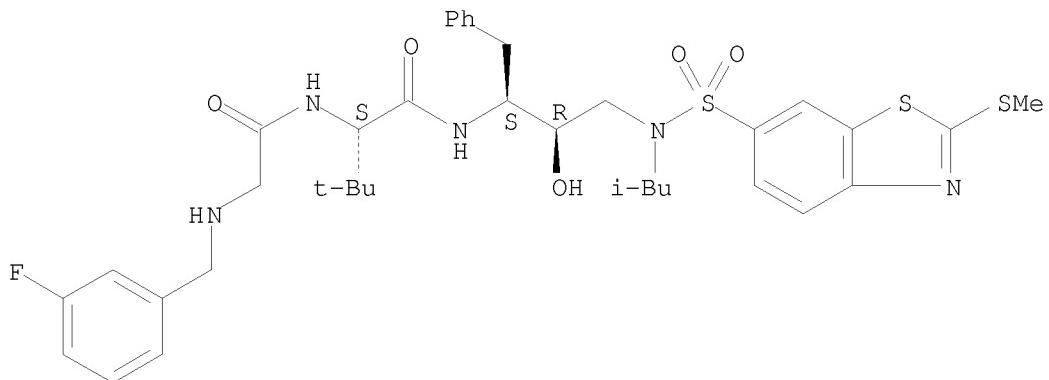
Absolute stereochemistry.



RN 473739-31-0 CAPLUS

CN L-Valinamide, N-[(3-fluorophenyl)methyl]glycyl-N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[[2-(methylthio)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

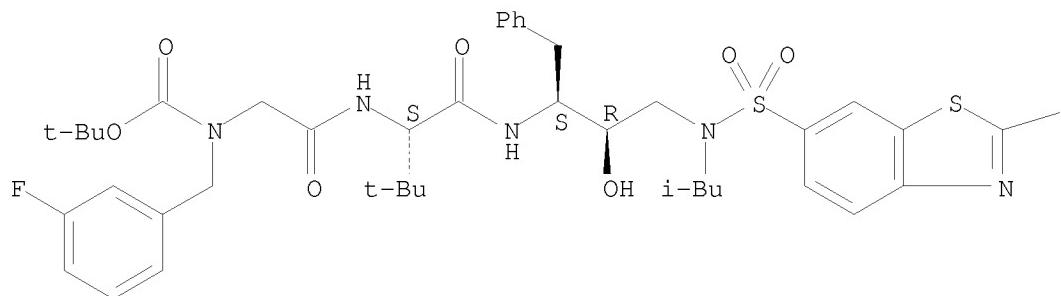


RN 473739-32-1 CAPLUS

CN L-Valinamide, N-[(1,1-dimethylethoxy)carbonyl]-N-[(3-fluorophenyl)methyl]glycyl-N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[(2-methylthio)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



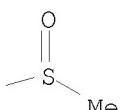
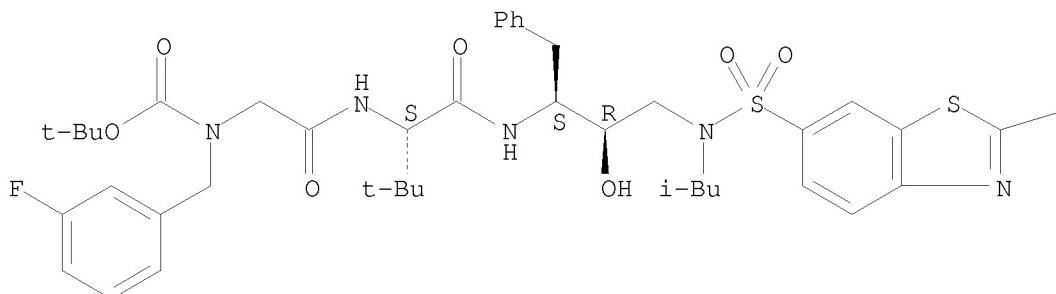
PAGE 1-B

— SMe

RN 473739-33-2 CAPLUS

CN L-Valinamide, N-[(1,1-dimethylethoxy)carbonyl]-N-[(3-fluorophenyl)methyl]glycyl-N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[(2-methylsulfinyl)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:793630 CAPLUS <<LOGINID::20090204>>
 DOCUMENT NUMBER: 137:310904
 TITLE: Preparation of 2-(substituted-amino)benzoxazole sulfonamides as broadspectrum HIV protease inhibitors
 SURLERAUX, Dominique Louis Nestor Ghislain;
 VENDEVILLE, Sandrine Marie Helene; VERSCHUEREN, Wim
 GASTON; DE BETHUNE, Marie-Pierre T. M. M. G.; DE KOCK,
 HERMAN AUGUSTINUS; TAHRI, Abdellah;ERRA SOLA,
 MONTSERRAT
 INVENTOR(S):
 PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
 SOURCE: PCT Int. Appl., 55 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002081478	A2	20021017	WO 2002-EP4012	20020409
WO 2002081478	A3	20030501		
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CA 2442870	A1	20021017	CA 2002-2442870	20020409

AU 2002257774	A1 20021021	AU 2002-257774	20020409
AU 2002257774	B2 20070830		
EE 200300494	A 20031215	EE 2003-494	20020409
HU 2003003744	A2 20040301	HU 2003-3744	20020409
HU 2003003744	A3 20080328		
BR 2002008796	A 20040309	BR 2002-8796	20020409
EP 1397367	A2 20040317	EP 2002-727554	20020409
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JP 2004529144	T 20040924	JP 2002-579466	20020409
NZ 528954	A 20050429	NZ 2002-528954	20020409
CN 1636006	A 20050706	CN 2002-811480	20020409
AP 1544	A 20060228	AP 2003-2882	20020409
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BG 108218	A 20040930	BG 2003-108218	20031001
ZA 2003007683	A 20050103	ZA 2003-7683	20031001
IN 2003DN01589	A 20070223	IN 2003-DN1589	20031006
US 20040132791	A1 20040708	US 2003-474162	20031007
US 7244752	B2 20070717		
KR 872029	B1 20081205	KR 2003-713144	20031007
NO 2003004505	A 20031208	NO 2003-4505	20031008
MX 2003009179	A 20041122	MX 2003-9179	20031008
US 20070135447	A1 20070614	US 2007-626183	20070123
PRIORITY APPLN. INFO.:		EP 2001-201308	A 20010409
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		WO 2002-EP4012	W 20020409
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OTHER SOURCE(S): MARPAT 137:310904

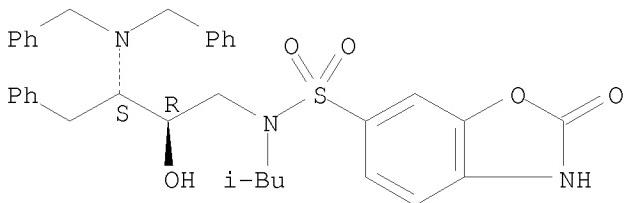
IT **470704-91-7P 470704-93-9P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of aminobenzoxazole sulfonamides as broad-spectrum HIV protease inhibitors)

RN 470704-91-7 CAPLUS

CN 6-Benzoxazolesulfonamide, N-[(2R,3S)-3-[bis(phenylmethyl)amino]-2-hydroxy-4-phenylbutyl]-2,3-dihydro-N-(2-methylpropyl)-2-oxo- (CA INDEX NAME)

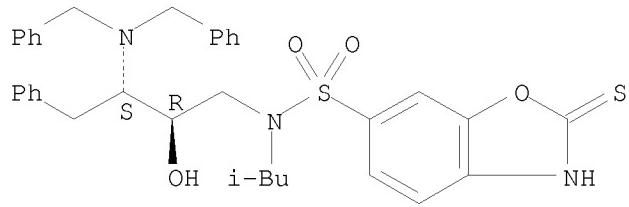
Absolute stereochemistry.



RN 470704-93-9 CAPLUS

CN 6-Benzoxazolesulfonamide, N-[(2R,3S)-3-[bis(phenylmethyl)amino]-2-hydroxy-4-phenylbutyl]-2,3-dihydro-N-(2-methylpropyl)-2-thioxo- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

10

THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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SESSION RESUMED IN FILE 'CASREACT' AT 13:43:58 ON 19 MAR 2009
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FULL ESTIMATED COST	146.15	301.46

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ring nodes :

1 2 3 4 5 10 11 12 13 14

chain bonds :

4-6 6-7 13-15 15-16 15-17

ring bonds :

1-3 1-2 2-5 3-4 4-5 10-12 10-11 11-14 12-13 13-14

exact/norm bonds :

1-3 1-2 2-5 3-4 4-5 4-6 6-7 10-12 10-11 11-14 12-13 13-14 13-15 15-16
15-17

G1:C,H

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 10:Atom 11:Atom 12:Atom
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containing 1

fragments assigned product role:

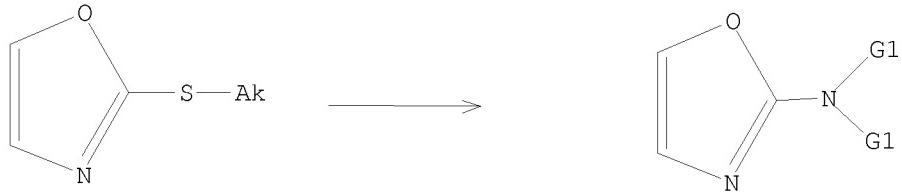
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L6 HAS NO ANSWERS

L6 STR



G1 C, H

Structure attributes must be viewed using STN Express query preparation.

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                                ENTRY           SESSION
FULL ESTIMATED COST          146.63         301.94
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FILE CONTENT:1840 - 15 Mar 2009 VOL 150 ISS 12

New CAS Information Use Policies, enter HELP USAGETERMS for details.

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*                                         *
*      CASREACT now has more than 16.5 million reactions      *
*                                         *
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CASREACT contains reactions from CAS and from: ZIC/VINITI database (1974-1999) provided by InfoChem; INPI data prior to 1986; Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich; organic reactions, portions copyright 1996-2006 John Wiley & Sons, Ltd., John Wiley and Sons, Inc., Organic Reactions Inc., and Organic Syntheses Inc. Reproduced under license. All Rights Reserved.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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PROJECTED ANSWERS:          0 TO       0
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SEARCH TIME: 00.00.01

8 DOCS

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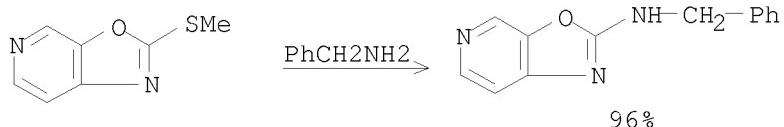
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L9 ANSWER 1 OF 1 CASREACT COPYRIGHT 2009 ACS on STN

RX(5) OF 6



REF: Journal of Organic Chemistry, 60(17), 5721-5; 1995

=> d 19 ibib

L9 ANSWER 1 OF 1 CASREACT COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 123:256657 CASREACT <<LOGINID::20090319>>

TITLE: Preparation of the Four Regioisomeric
2-(Methylthio)oxazolopyridines: Useful Synthons for
Elaboration to 2-(Amino substituted)oxazolopyridines

AUTHOR(S): Chu-Moyer, Margaret Y.; Berger, Richard

CORPORATE SOURCE: Pfizer Central Research, Groton, CT, 06340, USA

SOURCE: Journal of Organic Chemistry (1995), 60(17), 5721-5

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

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	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

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FILE 'DISSABS' ENTERED AT 10:26:28 ON 20 MAR 2009
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=> s HIV protease
L1 5231 HIV PROTEASE

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=> s l1 (L) inhibit*
L2          258 L1 (L) INHIBIT*
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=> S 12 (L) sulfonamide
L3 5 L2 (L) SULFONAMIDE

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AN 2004:181397 CAPLUS <>LOGINID::20090320>>
DN 140:296676
TI Antiviral sulfonamide derivatives
AU Supuran, Claudio T.; Innocenti, Alessio; Mastrolorenzo, Antonio;
Scozzafava, Andrea
CS Dipartimento di Chimica, Laboratorio di Chimica Bioinorganica, Universita
degli Studi di Firenze, Sesto Fiorentino, I-50019, Italy
SO Mini-Reviews in Medicinal Chemistry (2004), 4(2), 189-200
CODEN: MMCIAE; ISSN: 1389-5575
PB Bentham Science Publishers Ltd.
DT Journal; General Review
LA English
RE.CNT 68 THERE ARE 68 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2003:368078 CAPLUS <>LOGINID::20090320>>
DN 139:206870
TI Anticancer and antiviral sulfonamides
AU Scozzafava, Andrea; Owa, Takashi; Mastrolorenzo, Antonio; Supuran, Claudio T.
CS Dipartimento di Chimica, Laboratorio di Chimica Bioinorganica, Universita degli Studi di Firenze, Sesto Fiorentino, I-50019, Italy
SO Current Medicinal Chemistry (2003), 10(11), 925-953
CODEN: CMCHE7; ISSN: 0929-8673
PB Bentham Science Publishers Ltd.
DT Journal; General Review
LA English

RE.CNT 165 THERE ARE 165 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:799024 CAPLUS <>LOGINID::20090320>>
DN 136:95633
TI DPC 681 and DPC 684: potent, selective inhibitors of human immunodeficiency virus protease active against clinically relevant mutant variants
AU Kaltenbach, Robert F., III; Trainor, George; Getman, Daniel; Harris, Greg; Garber, Sena; Cordova, Beverly; Bacheler, Lee; Jeffrey, Susan; Logue, Kelly; Cawood, Pamela; Klabe, Ronald; Diamond, Sharon; Davies, Marc; Saye, Joanne; Jona, Janan; Erickson-Viitanen, Susan
CS Departments of Chemistry and Physical Sciences, Virology, Drug Metabolism, Pharmacy and Safety Assessment, DuPont Pharmaceuticals Co., Wilmington, DE, 19880, USA
SO Antimicrobial Agents and Chemotherapy (2001), 45(11), 3021-3028
CODEN: AMACQ; ISSN: 0066-4804
PB American Society for Microbiology
DT Journal
LA English

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1998:503133 CAPLUS <>LOGINID::20090320>>
DN 129:239439
OREF 129:48555a, 48558a
TI Tipranavir (PNU-140690): A Potent, Orally Bioavailable Nonpeptidic HIV Protease Inhibitor of the 5,6-Dihydro-4-hydroxy-2-pyrone Sulfonamide Class
AU Turner, Steve R.; Strohbach, Joseph W.; Tommasi, Ruben A.; Aristoff, Paul A.; Johnson, Paul D.; Skulnick, Harvey I.; Dolak, Lester A.; Seest, Eric P.; Tomich, Paul K.; Bohanon, Michael J.; Horng, Miao-Miao; Lynn, Janet C.; Chong, Kong-Teck; Hinshaw, Roger R.; Watenpaugh, Keith D.; Janakiraman, Musiri N.; Thaisrivongs, Suvit
CS Department of Structural Analytical & Medicinal Chemistry, Pharmacia Upjohn Inc., Kalamazoo, MI, 49001, USA
SO Journal of Medicinal Chemistry (1998), 41(18), 3467-3476
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
OS CASREACT 129:239439

RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1996:175600 CAPLUS <>LOGINID::20090320>>
DN 124:232064
OREF 124:42983a, 42986a
TI Preparation of N-(3-amino-2-hydroxybutyl)sulfonamide derivatives as HIV protease inhibitors
IN Kalish, Vincent J.
PA Agouron Pharmaceuticals, Inc., USA
SO PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DT Patent
LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9532185	A1	19951130	WO 1995-US6866	19950523
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US	5527829	A	19960618	US 1994-247983	19940523
CA	2190472	A1	19951130	CA 1995-2190472	19950523
AU	9526586	A	19951218	AU 1995-26586	19950523
EP	763017	A1	19970319	EP 1995-921534	19950523
EP	763017	B1	20000913		
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	JP 3732858	B2	20060111		
	AT 196288	T	20000915	AT 1995-921534	19950523
	ES 2151600	T3	20010101	ES 1995-921534	19950523
	PT 763017	T	20010131	PT 1995-921534	19950523
	GR 3035014	T3	20010330	GR 2000-402705	20001206
	JP 2006022106	A	20060126	JP 2005-216300	20050726
PRAI	US 1994-247983	A	19940523		
	JP 1995-530562	A3	19950523		
	WO 1995-US6866	W	19950523		
OS	CASREACT 124:232064;	MARPAT 124:232064			
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=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	16.65	16.87

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LAST RELOADED: Mar 13, 2009 (20090313/UP).

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FILE COVERS 1907 - 20 Mar 2009 VOL 150 ISS 13
FILE LAST UPDATED: 19 Mar 2009 (20090319/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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E1	1	DEKOCK D H/AU
E2	1	DEKOCK DANIEL P/AU
E3	0 -->	DEKOCK H/AU
E4	1	DEKOCK HERMAN AUGUSTINUS/AU
E5	2	DEKOCK J/AU
E6	1	DEKOCK J A/AU
E7	2	DEKOCK J R/AU
E8	1	DEKOCK J W/AU
E9	1	DEKOCK JAMES R/AU
E10	1	DEKOCK JOEL A/AU
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E12	10	DEKOCK L/AU

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E8	1	DE KOCK A J RUDOLF/AU
E9	1	DE KOCK ALANA/AU
E10	1	DE KOCK ALFONS PETRUS ANTONIUS GERRIT/AU
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7	"DE KOCK HERMAN"/AU
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 L7 9 ("FILLIERES WALTER"/AU OR "FILLIERES WALTER FERDINAND MARIA"/AU)

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 E7 2 AELVEBY NILS/AU
 E8 2 AELVOET C/AU
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 OR "AELTERMAN WIM ALBERT ALEX"/AU)

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 L10 10 L1 AND L9

=> d 1-10 ibib abs

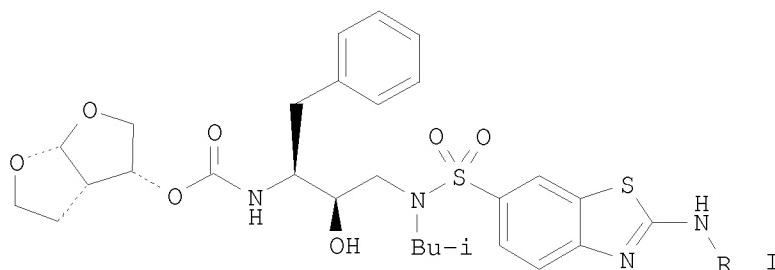
L10 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2007:1469854 CAPLUS <<LOGINID::20090320>>
 DOCUMENT NUMBER: 148:100596
 TITLE: Preparation of aminobenzothiazolylsulfonamide
 derivatives as **HIV protease**
 inhibitors
 INVENTOR(S): **De Kock, Herman; Jonckers, Tim Hugo Maria;**

Boonants, Paul Jozef Gabriel Maria; Last, Stefaan
 Julien; Dierynck, Inge; Baumeister, Judith Eva; Van 'T
 Klooster, Gerben Albert Eleutherius
PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
SOURCE: PCT Int. Appl., 38pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007147884	A1	20071227	WO 2007-EP56235	20070622
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2007262943	A1	20071227	AU 2007-262943	20070622
CA 2653233	A1	20071227	CA 2007-2653233	20070622
EP 2035432	A1	20090318	EP 2007-765554	20070622
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KR 2009024257	A	20090306	KR 2009-700754	20090114
PRIORITY APPLN. INFO.:			EP 2006-116003	A 20060623
			WO 2007-EP56235	W 20070622

OTHER SOURCE(S): MARPAT 148:100596

GI



AB The present invention relates to 2-(substituted-amino)-benzothiazole sulfonamide compds. and derivs. of formula I [R = (un)substituted piperidine or pyrrolidine ring], and their stereoisomers or pharmaceutically acceptable salts, their use as protease inhibitors, in particular as broadspectrum **HIV protease** inhibitors, processes for their preparation as well as pharmaceutical compns. and diagnostic kits comprising them. All the exemplar compds. of the invention were tested in a cellular assay using the MT4-LTR-EGFP cells for

antiviral activity. The assay demonstrated that these compds. exhibit potent anti-HIV activity against a wild type laboratory HIV strain (WT IIIB-2-001) and are effective in inhibiting a broad range of mutant strains. For example, II [R = 1-cyclopentylpiperidin-4-yl] was prepared and showed pEC50 value of 7.88 against IIIB. The invention also concerns combinations of I with another anti-retroviral agent.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2007:592132 CAPLUS <>LOGINID::20090320>>
 DOCUMENT NUMBER: 147:9889
 TITLE: Aminophenylsulfonamide derivatives as **HIV protease** inhibitors, their preparation, pharmaceutical compositions, and use in therapy
 INVENTOR(S): **De Kock, Herman Augustinus;** Jonckers, Tim
 Hugo Maria; Last, Stefaan Julien; Boonants, Paul Jozef
 Gabriel Maria; Surleraux, Dominique Louis Nestor
 Ghislain; Wigerinck, Piet Tom Bert Paul
 PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
 SOURCE: PCT Int. Appl., 41pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007060253	A1	20070531	WO 2006-EP68993	20061128
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
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CA 2628542	A1	20070531	CA 2006-2628542	20061128
EP 1960404	A1	20080827	EP 2006-819815	20061128
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IN 2008DN04419	A	20080815	IN 2008-DN4419	20080523
US 20080269322	A1	20081030	US 2008-94799	20080523
MX 2008006818	A	20080604	MX 2008-6818	20080527
CN 101316850	A	20081203	CN 2006-80044252	20080527
PRIORITY APPLN. INFO.:			EP 2005-111394	A 20051128
			WO 2006-EP68993	W 20061128

OTHER SOURCE(S): MARPAT 147:9889
 GI

AB The invention concerns substituted aminophenylsulfonamide compds. of formula I, which are protease inhibitors, in particular, broadspectrum **HIV protease** inhibitors. In compds. I, R1 and R2 are independently selected from H and C1-6 alkyl, optionally substituted by OH, Het, C1-6 alkoxy, C3-7 cycloalkyl, aryl, benzodioxolyl, carbamoyl, C1-6 alkoxy carbonyl, or C1-6 alkyl-C(O)-; and Het is (un)substituted 3- to 14-membered heterocyclyl ring system or (un)substituted 3- to 14-membered heteroaryl ring system; including N-oxides, stereoisomers, racemates, prodrugs, esters, metabolites, and salts thereof. The invention also concerns the preparation of I, pharmaceutical compns. comprising an effective amount of at least one compound I and a pharmaceutically tolerable excipient, optionally in combination with another anti-retroviral agent, as well as to the use of the compns. for the treatment of HIV infections.

Cbz-protection of amine II followed by Boc-removal and carbamate formation with 2,5-dioxopyrrolidin-1-yl hexahydrofuro[2,3-b]furan-3-yl carbonate gave the furofuranyl carbamate, which underwent deprotection and sulfonylation with 3-fluoro-4-nitrobenzenesulfonyl chloride resulting in the formation of III. Substitution of III with 2,4-difluorobenzylamine and reduction gave aminophenylsulfonamide IV. The compds. of the invention express anti-retroviral activity, e.g., compound IV expressed EC₅₀ values from 6.87 to 9.21 against a wild-type laboratory HIV strain and four drug-resistant strains.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2007:591289 CAPLUS <>LOGINID::20090320>>
 DOCUMENT NUMBER: 147:9887
 TITLE: Aminophenylsulfonamide derivatives as **HIV protease** inhibitors, their preparation, pharmaceutical compositions, and use in therapy
 INVENTOR(S): **De Kock, Herman Augustinus**; Jonckers, Tim
 Hugo Maria; Last, Stefaan Julien; Boonants, Paul Jozef
 Gabriel Maria; Surleraux, Dominique Louis Nestor
 Ghislain; Wigerinck, Piet Tom Bert Paul
 PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
 SOURCE: PCT Int. Appl., 40pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007060249	A1	20070531	WO 2006-EP68983	20061128
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
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AU 2006316399	A1	20070531	AU 2006-316399	20061128
CA 2628540	A1	20070531	CA 2006-2628540	20061128

EP 1960381	A1	20080827	EP 2006-819805	20061128
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
CN 101304987	A	20081112	CN 2006-80041659	20080508
US 20080306061	A1	20081211	US 2008-94697	20080522
IN 2008DN04416	A	20080815	IN 2008-DN4416	20080523
MX 2008006816	A	20080604	MX 2008-6816	20080527
PRIORITY APPLN. INFO.:			EP 2005-111393	A 20051128
			WO 2006-EP68983	W 20061128
OTHER SOURCE(S):	MARPAT 147:9887			
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention concerns substituted aminophenylsulfonamide compds. of formula I, which are protease inhibitors, in particular, broadspectrum **HIV protease** inhibitors. In compds. I, R1 and R2 are independently selected from H, Het, Het-C1-6 alkyl-C(O)-, and C1-6 alkyl-amino-C1-6 alkyl-C(O)-, optionally substituted by Het; and Het is (un)substituted 3- to 14-membered heterocyclyl ring system or (un)substituted 3- to 14-membered heteroaryl ring system; including N-oxides, stereoisomers, racemates, prodrugs, esters, metabolites, and salts thereof. The invention also concerns the preparation of I, pharmaceutical compns. comprising an effective amount of at least one compound I and a pharmaceutically tolerable excipient, optionally in combination with another anti-retroviral agent, as well as to the use of the compns. for the treatment of HIV infections. Cbz-protection of amine II followed by Boc-removal and carbamate formation with 2,5-dioxopyrrolidin-1-yl hexahydrofuro[2,3-b]furan-3-yl carbonate gave the furofuryl carbamate, which underwent deprotection and sulfonylation with 3-fluoro-4-nitrobenzenesulfonyl chloride resulting in the formation of III. Substitution of III with 3-amino-1-cyclopentylpyrrolidine dihydrochloride (two-step preparation from 3-(Boc-amino)pyrrolidine given) and reduction gave aminophenylsulfonamide IV. The compds. of the invention express anti-retroviral activity, e.g., compound IV expressed EC50 values from 6.56 to 7.68 against a wild-type laboratory HIV strain and four drug-resistant strains.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2006:1097492 CAPLUS <<LOGINID::20090320>>
 DOCUMENT NUMBER: 145:432164
 TITLE: Use of a sulfonamide compound for improving the pharmacokinetics of a drug
 INVENTOR(S): Van 't Klooster, Gerben Albert Eleutherius; Wigerinck, Piet Tom Bert Paul; De Meyer, Sandra; Baert, Lieven Elvire Colette; **De Kock, Herman Augustinus**
 PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
 SOURCE: PCT Int. Appl., 29pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2006108879	A2	20061019	WO 2006-EP61614	20060414
WO 2006108879	A3	20080110		
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AU 2006234335	A1	20061019	AU 2006-234335	20060414
CA 2604799	A1	20061019	CA 2006-2604799	20060414
EP 1874307	A2	20080109	EP 2006-754743	20060414
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JP 2008535896	T	20080904	JP 2008-505907	20060414
MX 2007012769	A	20080829	MX 2007-12769	20071012
CN 101175491	A	20080507	CN 2006-80012542	20071015
IN 2007DN07972	A	20071123	IN 2007-DN7972	20071016
US 20080287488	A1	20081120	US 2008-911465	20080610
PRIORITY APPLN. INFO.:			EP 2005-103035	A 20050415
			US 2005-684283P	P 20050525
			WO 2006-EP61614	W 20060414

OTHER SOURCE(S): MARPAT 145:432164

AB A method for improving the pharmacokinetics of drugs, which are metabolized by cytochrome P 450 monooxygenase is disclosed. More specifically it relates to a method for improving the pharmacokinetics of retroviral protease inhibitors and in particular for improving the pharmacokinetics of human immunodeficiency virus (**HIV**) **protease** inhibitors. A pharmaceutical composition and its use in the manufacture of a medicament for the inhibition or treatment of an HIV infection or AIDS in a human being are also part of the invention.

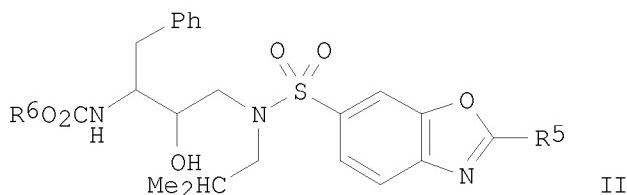
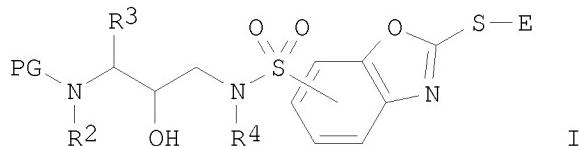
L10 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:300421 CAPLUS <>LOGINID::20090320>>
 DOCUMENT NUMBER: 142:373819
 TITLE: Methods for the preparation of aminohydroxypropyl benzoxazolesulfonamides as intermediates in the preparation of **HIV protease** inhibitors
 INVENTOR(S): De Kock, Herman Augustinus; Filliers, Walter Ferdinand Maria; Aelterman, Wim Albert Alex
 PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
 SOURCE: PCT Int. Appl., 65 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005030739	A1	20050407	WO 2004-EP52382	20040930
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 SN, TD, TG

AU 2004276017	A1	20050407	AU 2004-276017	20040930
CA 2537877	A1	20050407	CA 2004-2537877	20040930
EP 1670773	A1	20060621	EP 2004-766869	20040930
EP 1670773	B1	20070207		
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BR 2004014916	A	20061107	BR 2004-14916	20040930
CN 1860107	A	20061108	CN 2004-80028097	20040930
AT 353323	T	20070215	AT 2004-766869	20040930
JP 2007507468	T	20070329	JP 2006-530265	20040930
ES 2281828	T3	20071001	ES 2004-766869	20040930
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KR 2006092224	A	20060822	KR 2006-705992	20060327
US 20070123574	A1	20070531	US 2006-574157	20060328
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PRIORITY APPLN. INFO.:				
EP 2003-103630 A 20030930				
US 2003-507996P P 20031002				
WO 2004-EP52382 W 20040930				

OTHER SOURCE(S): CASREACT 142:373819; MARPAT 142:373819
GI



AB Aminohydroxypropyl benzoxazolesulfonamides I [E = electrophilic moiety; PG = protecting group; R2 = H, alkyl; R3 = (un)substituted cycloalkyl, aryl, heteroaryl, alkyl; R4 = H, HO2C, (un)substituted alkyl, alkoxy carbonyl, aminocarbonyl, cycloalkyl, alkenyl, alkynyl] such as II (R5 = MeS; R6 = Me3C) are prepared as intermediates in the synthesis of **HIV protease** inhibitors such as II (R5 = H2N; R6 = 5-thiazolylmethyl). S-alkylation of 2-benzoxazolethione followed by regioselective

sulfonylation yields an benzoxazolesulfonic acid derivative which sulfonylates an amino alc. (derived from ring opening of an epoxide with an amine) to provide I. For example, 2-mercaptopbenzoxazole is methylated and the product regioselectively sulfonylated with chlorosulfonic acid and converted to the sulfonyl chloride with thionyl chloride to yield 2-(methylthio)-6-benzoxazolesulfonyl chloride. Ring opening of [1-(Boc-amino)-2-phenylethyl]oxirane (Boc = Me₃COCO) with isobutylamine yields the amine PhCH₂CH(NHBoc)CH(OH)CH₂NHCH₂CHMe₂ (III). Sulfonylation of III with 2-(methylthio)-6-benzoxazolesulfonyl chloride provides II (R₅ = MeS; R₆ = Me₃C). Heating of II (R₅ = Mes; R₆ = Me₃C) with ammonia under pressure, cleavage of the Boc group with hydrogen chloride in isopropanol, and treatment with mono(N-hydroxysuccinimidyl) mono(5-thiazolemethyl) carbonate yields II (R₅ = H₂N; R₆ = 5-thiazolemethyl).

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:931343 CAPLUS <>LOGINID::20090320>>
 DOCUMENT NUMBER: 140:704
 TITLE: Broad-spectrum substituted benzisoxazole sulfonamide
HIV protease inhibitors, preparation
 thereof, pharmaceutical compositions, diagnostic kits,
 and combinations with other antiretroviral agents
 INVENTOR(S): Surleraux, Dominique Louis Nestor Ghislain; Vergouwen,
 Bernhard Joanna Bernard; **De Kock, Herman Augustinus**
 PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd, Ire.
 SOURCE: PCT Int. Appl., 55 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003097616	A1	20031127	WO 2003-EP50173	20030516
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2485903	A1	20031127	CA 2003-2485903	20030516
AU 2003238074	A1	20031202	AU 2003-238074	20030516
BR 2003010089	A	20050215	BR 2003-10089	20030516
EP 1517899	A1	20050330	EP 2003-735707	20030516
EP 1517899	B1	20070829		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1668605	A	20050914	CN 2003-816458	20030516
JP 2005527607	T	20050915	JP 2004-505349	20030516
NZ 536496	A	20060630	NZ 2003-536496	20030516
AT 371652	T	20070915	AT 2003-735707	20030516
ES 2292976	T3	20080316	ES 2003-735707	20030516
US 20050171173	A1	20050804	US 2004-514539	20041112
US 7462636	B2	20081209		

MX 2004011466	A	20050214	MX 2004-11466	20041117
NO 2004005444	A	20050216	NO 2004-5444	20041214
ZA 2004010156	A	20050905	ZA 2004-10156	20041215
HK 1076099	A1	20080201	HK 2005-108052	20050914
PRIORITY APPLN. INFO.:			EP 2002-76957	A 20020517
			WO 2003-EP50173	W 20030516

OTHER SOURCE(S): MARPAT 140:704

AB The invention discloses benzisoxazole sulfonamide derivs. and the N-oxides, salts, stereoisomers, racemic mixts., prodrugs esters, and metabolites thereof. Also disclosed are their use as broad-spectrum **HIV protease** inhibitors, processes for their preparation, and pharmaceutical compns. and diagnostic kits comprising them. Further disclosed are combinations of the compds. of the invention with another antiretroviral agent, and their use in assays as reference compds. or as reagents.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:737734 CAPLUS <>LOGINID::20090320>>

DOCUMENT NUMBER: 139:261299

TITLE: Preparation of broad spectrum substituted benzimidazolesulfonamide **HIV protease** inhibitors

INVENTOR(S): Surleraux, Dominique Louis Nestor Ghislain; Wigerinck, Piet Tom Bert Paul; Voets, Marieke Christiane Johanna; Vendeville, Sandrine Marie Helene; **De Kock, Herman Augustinus**; Vergouwen, Bernhard Joanna Bernard

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 75 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

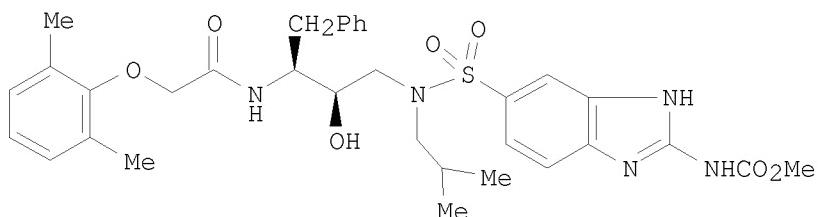
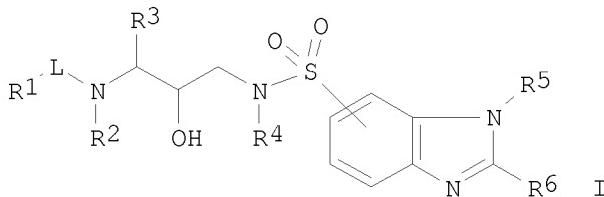
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003076413	A1	20030918	WO 2003-EP50057	20030312
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CA 2479012	A1	20030918	CA 2003-2479012	20030312
AU 2003219159	A1	20030922	AU 2003-219159	20030312
BR 2003003373	A	20040323	BR 2003-3373	20030312
EP 1485358	A1	20041215	EP 2003-714954	20030312
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005519952	T	20050707	JP 2003-574633	20030312
CN 1653053	A	20050810	CN 2003-810472	20030312
ZA 2004007242	A	20051004	ZA 2004-7242	20040909
US 20050171175	A1	20050804	US 2004-508561	20040910
MX 2004008929	A	20041126	MX 2004-8929	20040913

PRIORITY APPLN. INFO.:

EP 2002-75999
WO 2003-EP50057A 20020312
W 20030312OTHER SOURCE(S):
GI

MARPAT 139:261299



AB Title compds. I [R1 = H, alkyl, alkenyl, aralkyl, aralkenyl, cycloalkyl, cycloalkylalkyl, aryl, heterocyclic, heterocyclalkyl, aminoalkyl; R2 = H, alkyl; R3 = (un)substituted alkyl, aryl, cycloalkyl; R4 = H, (un)substituted CO2H, CONH2, cycloalkyl, alkenyl, alkynyl, OH, NH2; R5 = H, (un)substituted alkyl; R6 = H, (un)substituted alkyl, NH2; L = CO, CO2, (un)substituted NHCO, OXCO, NHXCO, SO2, SO3, NHSO2, NHXSO2, where either CO or SO2 is attached to NR2; X = alkanediyl] were prepared. Thus, Me 2-benzimidazolecarbamate was chlorosulfonylated, treated with (1S, 2R)-PhCH2CH(NHBoc)CH(OH)CH2NHCH2CHMe2, deblocked, and treated with 2,6-Me2C6H3OCH2CO2H to give the title compound II which had pIC50 against HIV-1 strain LAI of 8.5.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:888736 CAPLUS <<LOGINID::20090320>>

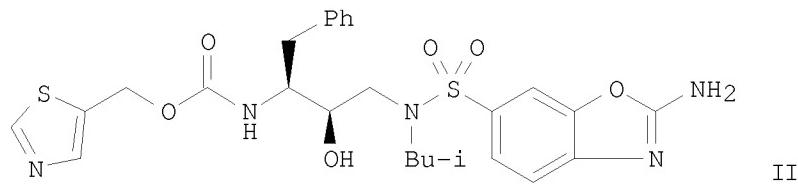
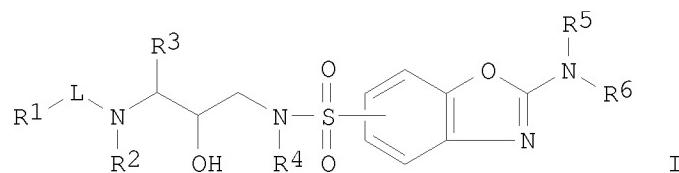
DOCUMENT NUMBER: 137:384835

TITLE: Preparation of 2-amino-benzoxazole sulfonamide as broad-spectrum **HIV protease** inhibitorsINVENTOR(S): Surleraux, Dominique Louis Nestor Ghislain; Vendeville, Sandrine Marie Helene; Verschueren, Wim Gaston; De Bethune, Marie-Pierre T. M. M. G.; **De Kock, Herman Augustinus**; Tahri, AbdellahPATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
SOURCE: PCT Int. Appl., 54 pp.DOCUMENT TYPE: Patent
LANGUAGE: EnglishFAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002092595	A1	20021121	WO 2002-EP5212	20020510
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2444895	A1	20021121	CA 2002-2444895	20020510
AU 2002310818	A1	20021125	AU 2002-310818	20020510
AU 2002310818	B2	20071213		
EP 1387842	A1	20040211	EP 2002-735354	20020510
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
EE 200300547	A	20040216	EE 2003-547	20020510
BR 2002009594	A	20040330	BR 2002-9594	20020510
CN 1507446	A	20040623	CN 2002-809741	20020510
HU 2004000438	A2	20040830	HU 2004-438	20020510
HU 2004000438	A3	20070828		
JP 2004534757	T	20041118	JP 2002-589479	20020510
NZ 529250	A	20050527	NZ 2002-529250	20020510
AP 1652	A	20060831	AP 2003-2904	20020510
ZA 2003007799	A	20050106	ZA 2003-7799	20031006
IN 2003DN01588	A	20070112	IN 2003-DN1588	20031006
KR 878853	B1	20090115	KR 2003-713145	20031007
US 20040106661	A1	20040603	US 2003-474485	20031009
BG 108309	A	20041230	BG 2003-108309	20031103
MX 2003010258	A	20050307	MX 2003-10258	20031110
PRIORITY APPLN. INFO.:			EP 2001-201732	A 20010511
			WO 2002-EP5212	W 20020510

OTHER SOURCE(S): MARPAT 137:384835
GI



AB Title compds. I [R1, R8 = H, alkyl, alkenyl, arylalkyl, cycloalkyl, aryl,

heterocyclyl, etc.; R2 = H, alkyl; L = CO, OCO, NR8CO, etc.; R3 = alkyl, cycloalkyl, aryl, etc.; R4 = H, alkoxy carbonyl, carboxy, aminocarbonyl, cycloalkyl, etc.; R5-6 = H, alkyl, N-oxides, stereoisomers, metabolites and prodrugs thereof were prepared. For instance, II was prepared from the corresponding diamine (preparation described), N,N'-disuccinimidyl carbonate and 5-hydroxymethylthiazole (CH₂Cl₂, 6 h). Compds. of the invention are effective in inhibiting a broad range of mutant HIV strains; II had pEC50 = 8.18 against HIV-1 (Lai strain).

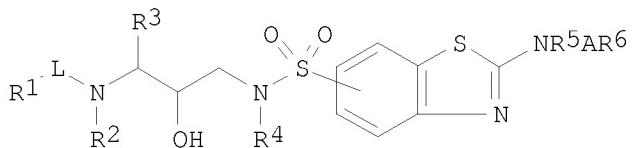
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:814117 CAPLUS <<LOGINID::20090320>>
 DOCUMENT NUMBER: 137:325410
 TITLE: Broad-spectrum
 2-(substituted-amino)-benzothiazolesulfonamide
HIV protease inhibitors
 INVENTOR(S): Surleraux, Dominique Louis Nestor Ghislain; Wigerinck, Piet Tom Bert Paul; Getman, Daniel; Verschueren, Wim Gaston; Vendeville, Sandrine; De Bethune, Marie-Pierre; De Kerpel, Jan Octaaf Antoon; Moors, Samuel Leo Christiaan; **De Kock, Herman Augustinus**; Voets, Marieke Christiane Johanna
 PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
 SOURCE: PCT Int. Appl., 83 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

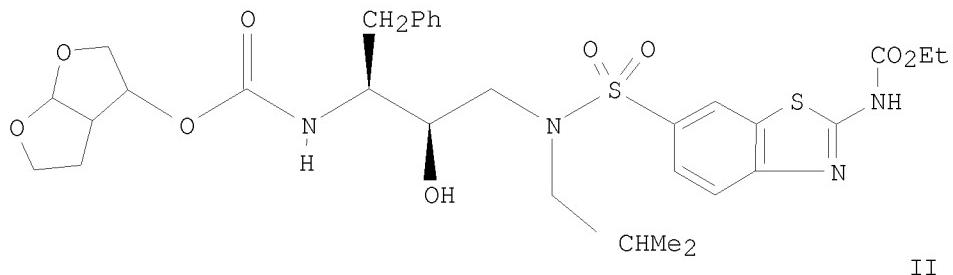
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002083657	A2	20021024	WO 2002-EP1788	20020214
WO 2002083657	A3	20030213		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2438304	A1	20021024	CA 2002-2438304	20020214
AU 2002302363	A1	20021028	AU 2002-302363	20020214
AU 2002302363	B2	20080501		
EE 200300381	A	20031215	EE 2003-381	20020214
EP 1370543	A2	20031217	EP 2002-729930	20020214
EP 1370543	B1	20061025		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
HU 2003003257	A2	20040128	HU 2003-3257	20020214
BR 2002007862	A	20040622	BR 2002-7862	20020214
JP 2004518767	T	20040624	JP 2002-581413	20020214
CN 1525962	A	20040901	CN 2002-804982	20020214
CN 100369904	C	20080220		
NZ 527391	A	20050429	NZ 2002-527391	20020214
AP 1504	A	20060228	AP 2003-2856	20020214
W: GM, GH, KE, LS, MW, MZ, SL, SD, SZ, TZ, UG, ZM, ZW				
AT 343567	T	20061115	AT 2002-729930	20020214

ES 2275866	T3	20070616	ES 2002-729930	20020214
CN 101230067	A	20080730	CN 2007-10199717	20020214
ZA 2003006086	A	20041108	ZA 2003-6086	20030806
US 20040116485	A1	20040617	US 2003-467609	20030807
KR 870184	B1	20081124	KR 2003-710506	20030808
IN 2003DN01269	A	20050527	IN 2003-DN1269	20030811
NO 2003003584	A	20031014	NO 2003-3584	20030813
NO 326174	B1	20081013		
MX 2003007236	A	20031204	MX 2003-7236	20030813
BG 108143	A	20040730	BG 2003-108143	20030901
HK 1061233	A1	20070427	HK 2004-104020	20040603
PRIORITY APPLN. INFO.:			EP 2001-200529	A 20010214
			US 2001-287758P	P 20010502
			CN 2002-804982	A3 20020214
			WO 2002-EP1788	W 20020214

OTHER SOURCE(S): MARPAT 137:325410
GI



I



II

AB Title compds. I [R1, R8 = H, (un)substituted alkyl, alkenyl, cycloalkyl, aryl, heterocyclyl, heterocyclylalkyl; R2 = H, alkyl; L = CO, O2C, (un)substituted NHCO, oxoalkylcarbonyl, aminoalkylcarbonyl, SO2, O3S, NHSO2; R3 = alkyl, aryl, cycloalkyl, cycloalkylalkyl, aralkyl; R4 = H, alkoxy carbonyl, carboxy, (un)substituted CONH2, cycloalkyl, alkenyl, alkynyl (un)substituted alkyl; A = alkanediyl, CO, CS, SO2, oxoalkanediyl, thioalkanediyl, alkanediylsulfonyl; R5 = H, OH, alkyl, heterocyclylalkyl, (un)substituted aminoalkyl; R6 = alkoxy, heterocyclyl, heterocyclyoxy, aryl, aryloxy, alkoxy carbonylamino, amino; and when A is other than alkanediyl then R6 may also be alkyl, heterocyclylalkyl, heterocyclyoxyalkyl, aralkyl, aryloxyalkyl, (un)substituted aminoalkyl; R5NAR6 = heterocyclic] their N-oxides, salts, stereoisomeric forms, racemic mixts., prodrugs, esters and metabolites were prepared I are useful as broad-spectrum **HIV protease** inhibitors, and may be formulated in diagnostic kits. Thus, the sulfonamide II, prepared in several steps from the benzothiazolecarbamate, showed activity against a number of resistant mutants of HIV-1 strain LAI.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:793630 CAPLUS <<LOGINID::20090320>>
 DOCUMENT NUMBER: 137:310904
 TITLE: Preparation of 2-(substituted-amino)benzoxazole sulfonamides as broadspectrum **HIV**
Protease inhibitors
 INVENTOR(S): Surleraux, Dominique Louis Nestor Ghislain;
 Vendeville, Sandrine Marie Helene; Verschueren, Wim
 Gaston; De Bethune, Marie-Pierre T. M. M. G.; **De**
Kock, Herman Augustinus; Tahri, Abdellah; Erra
 Sola, Montserrat
 PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
 SOURCE: PCT Int. Appl., 55 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

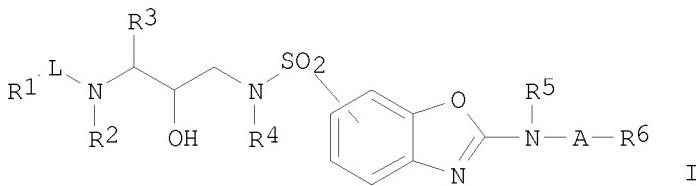
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002081478	A2	20021017	WO 2002-EP4012	20020409
WO 2002081478	A3	20030501		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
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CA 2442870	A1	20021017	CA 2002-2442870	20020409
AU 2002257774	A1	20021021	AU 2002-257774	20020409
AU 2002257774	B2	20070830		
EE 200300494	A	20031215	EE 2003-494	20020409
HU 2003003744	A2	20040301	HU 2003-3744	20020409
HU 2003003744	A3	20080328		
BR 2002008796	A	20040309	BR 2002-8796	20020409
EP 1397367	A2	20040317	EP 2002-727554	20020409
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JP 2004529144	T	20040924	JP 2002-579466	20020409
NZ 528954	A	20050429	NZ 2002-528954	20020409
CN 1636006	A	20050706	CN 2002-811480	20020409
AP 1544	A	20060228	AP 2003-2882	20020409
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BG 108218	A	20040930	BG 2003-108218	20031001
ZA 2003007683	A	20050103	ZA 2003-7683	20031001
IN 2003DN01589	A	20070223	IN 2003-DN1589	20031006
US 20040132791	A1	20040708	US 2003-474162	20031007
US 7244752	B2	20070717		
KR 872029	B1	20081205	KR 2003-713144	20031007
NO 2003004505	A	20031208	NO 2003-4505	20031008
MX 2003009179	A	20041122	MX 2003-9179	20031008
US 20070135447	A1	20070614	US 2007-626183	20070123
PRIORITY APPLN. INFO.:			EP 2001-201308	A 20010409
			US 2001-287704P	P 20010502

OTHER SOURCE(S):
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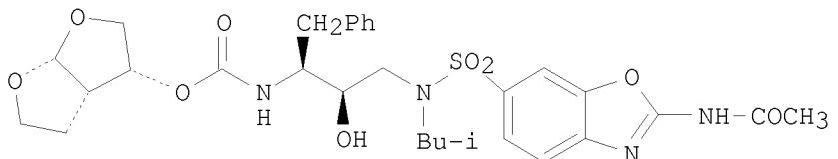
MARPAT 137:310904

WO 2002-EP4012
US 2003-474162

W 20020409
A3 20031007



I



II

AB Benzoxazole sulfonamides of formula I [R1 = H, alkyl, alkenyl, arylalkyl, aryl, etc.; R2 = H, alkyl; R3 = alkyl, aryl, cycloalkyl, cycloalkyl-alkyl, arylalkyl; R4 = H, alkyloxycarbonyl, carboxyl, aminocarbonyl, etc.; R5 = H, OH, alkyl, etc.; R6 = alkyloxy, aryl, aryloxy, etc.; L = CO, O-CO, NHCO, O-alkyl-CO, SO2, etc.; A = alkylene, CO, CS, SO2, etc.] are prepared as broad-spectrum **HIV protease** inhibitors. The compds. can also be combined with another anti-retroviral agent, and be used in assays as reference compds. or as reagents. Thus, II was prepared, and was effective in inhibiting a broad range of mutant strains in a cellular assay.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT